Service Manual

PIONEER

KPH-4130/EW

KPH - 4120 EW,ES KPH - 4120SDK/WG

ORDER NO. CRT 1086

CASSETTE CAR STEREO WITH TUNER DEZ.1986
MECHANIK = CX – 166(CRT1094)

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PH-4130/KPH-4120/KPH-4120SDK

6. ADJUSTMENT

• Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

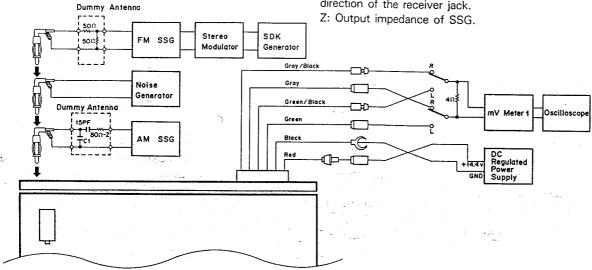


Fig. 15

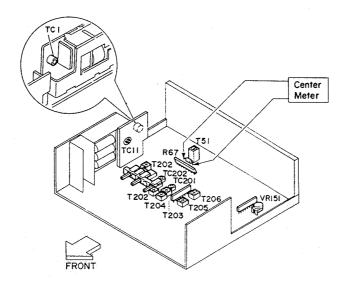


Fig. 16

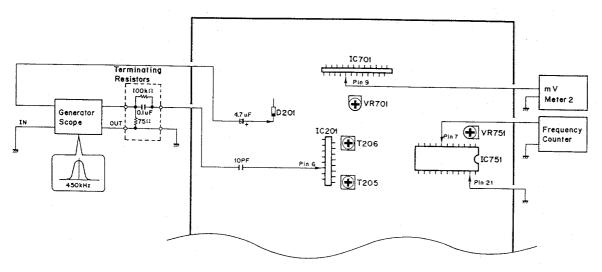


Fig. 17

• AM IF ADJUSTMENT

	No.	Generator Scope Level (dB)	Adjusting Point	Adjustment Method (Switch Position)
IF	1	Select a low range where U curve appears.	T205, 206	Make U curve symmetrical and its amplitude the maximum.

• AM (MW) TRACKING ADJUSTMENT

	No.	AM SSG (400 Hz, 30%)		Pointer	Adjusting	Adjustment Method	
**	IVO.	Frequency (kHz)	Level dB (μV)	Position	Point	(Switch Position)	
	1	515	20	Minimum	T203	mV Meter 1: Maximum	
T 1.	2	1,650	20	Maximum	TC201	mV Meter 1: Maximum	
Track- ing	3	Repeat No.1-2 alte	rnately so that t	he mV Meter	1 indicates the	maximum output.	
	4	1,400	20	Tune to 1,400 kHz	TC1, TC202	mV Meter 1: Maximum	

• AM (LW) TRACKING ADJUSTMENT (KPH-4130/EW)

	No.	AM SSG (400 Hz, 30%)		Pointer	Adjusting	Adjustment Method	
	NO.	Frequency (kHz)	Level dB (μV)	Position	Point	(Switch Position)	
	1	140	40	Minimum	T204	mV Meter 1: Maximum	
Track-	2	290	40	Maximum	T202	mV Meter 1: Maximum	
ing	3	Repeat No.1-2 alte	rnately so that t	he mV Meter	i indicates the	maximum output.	
	4	215	40	Tune to 215 kHz	T201	mV Meter 1: Maximum	

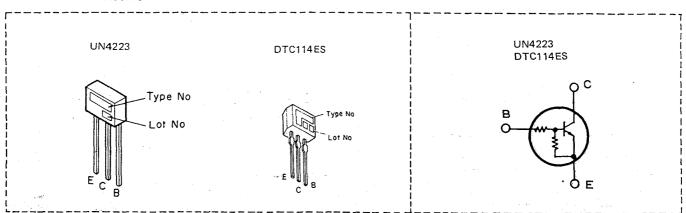
• FM ADJUSTMENT *1 Noise Generator *2 Stereo MOD.: 1 kHz, L+R=90%, Pilot=10%

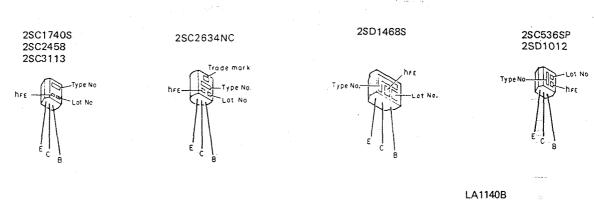
	No.	FM SSG (400	Hz, 100%)	Pointer	Adjusting	Adjustment Method	
	INO.	Frequency (MHz)	Level dB (μV)	Position	Point	(Switch Position)	
IF	1	*1		No Care	T51	Center Meter: 0	
	2	87.0 (EW,ES)	10	Minimum	TC11		
Track-	2	87.5 (SDK/WG)	10		(Front End)	mV Meter 1: Maximum	
	3	87.2 (SDK/WG)	10	Minimum		87.2 MHz can not be received	
ing	4	108.5 (EW,ES)	10	Maximum		108.5 MHz can be received	
	4	107.5 (SDK/WG)	10			107.5 MHz can be received	
	5	108.3 (SDK/WG)	10	Maximum		108.3 MHz can not be received	
ARC	1	98.0*2	32	Tune to 98.0 MHz	VR151	mV Meter 1: Separation 5 dB (MONO SWITCH: AUTO)	

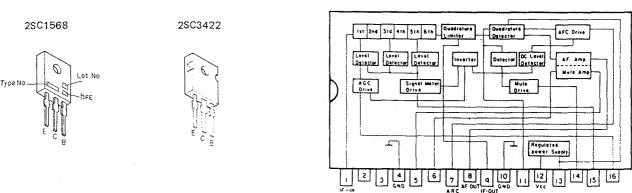
• SDK ADJUSTMENT *3 SDK MOD.: 400 Hz, L + R = 60%, 57 kHz (SK) = 5%, 125 Hz (DK) = 30%

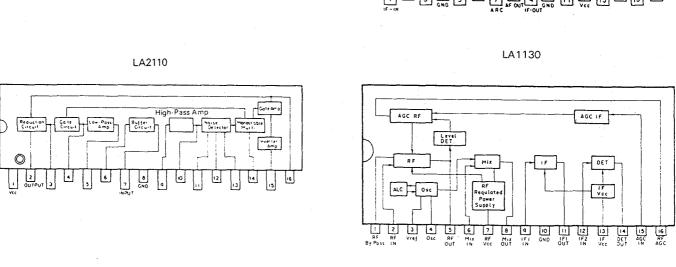
	No.	FM SSG *3		Pointer	Adjusting	Adjustment Method	
	INO.	Frequency (MHz)	Level dB (μV)	Position	Point	(Switch Position)	
SK	1	98.0	60	Tune to 98.0 MHz	VR701	mV Meter 2: Maximum SDK SWITCH: OFF	
DK	1	98.0	60	Tune to 98.0 MHz	VR751	Frequency Counter: 125±1 Hz SDK Switch: ON, Ground IC751 pin 21.	

• ICs and Transistors

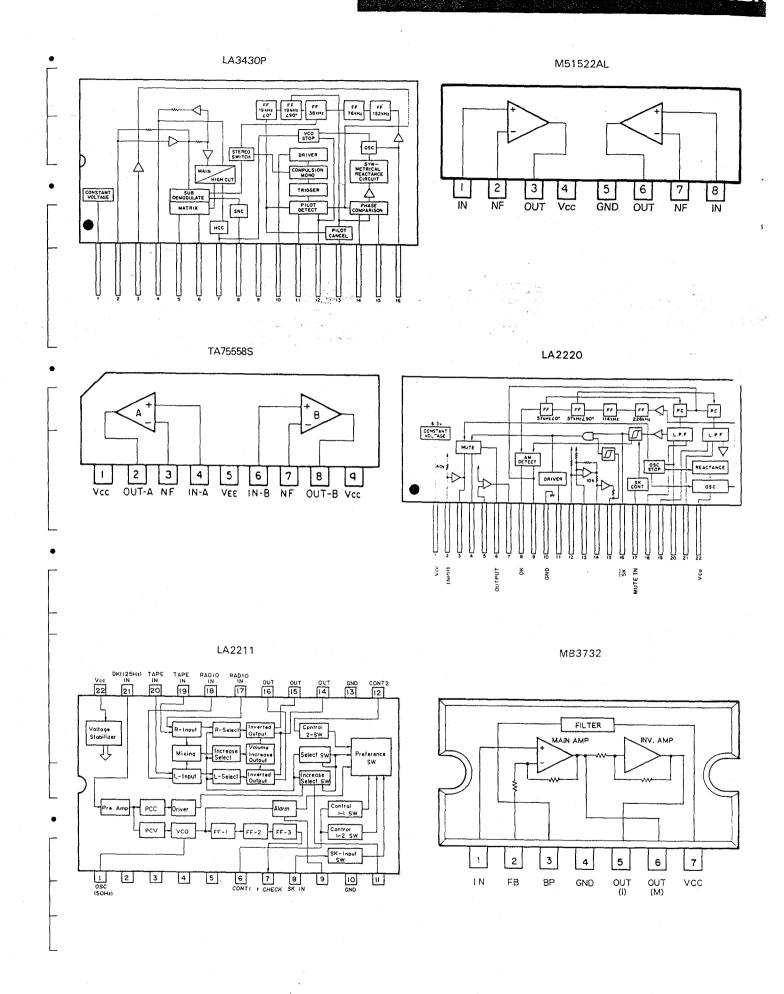


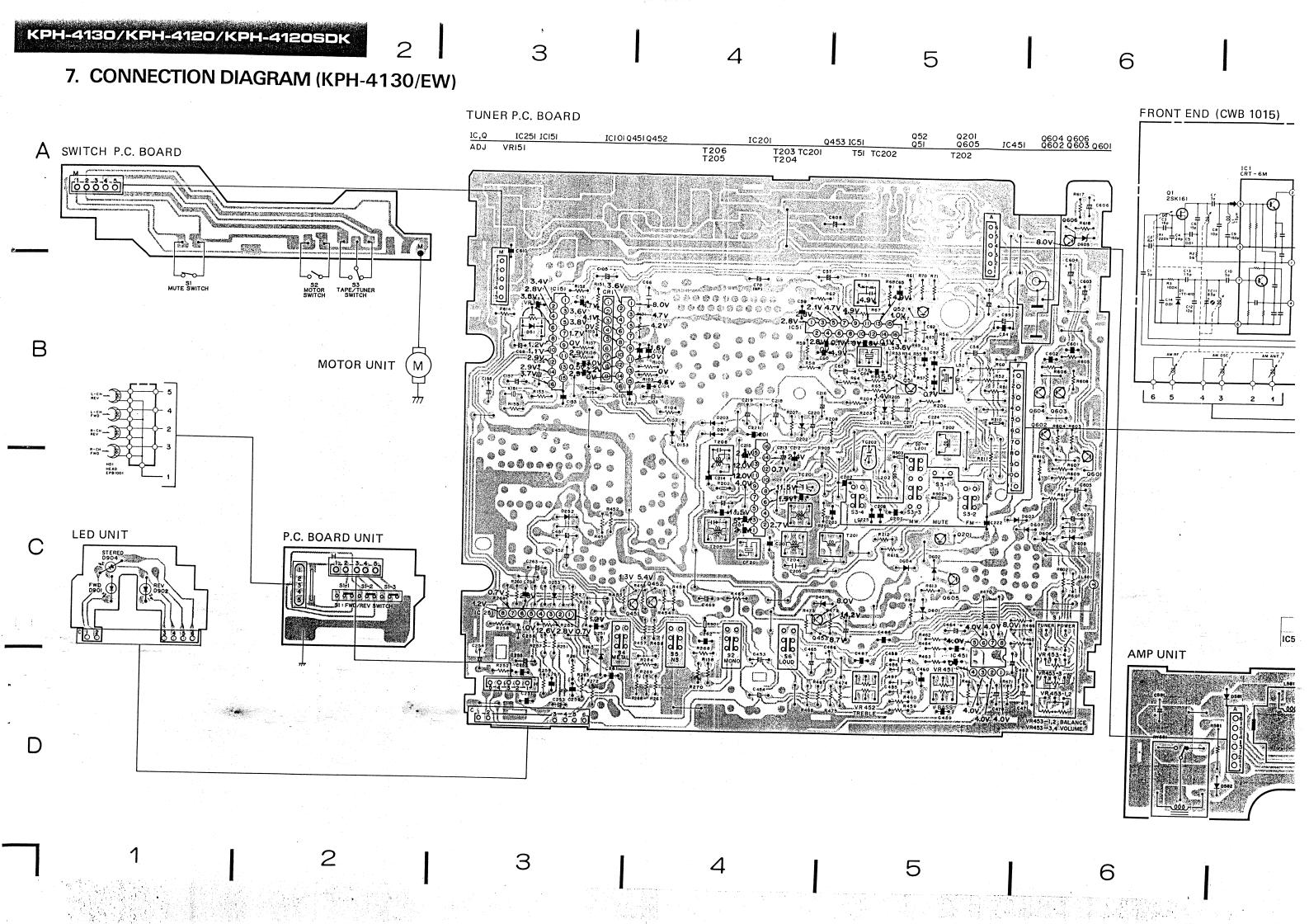


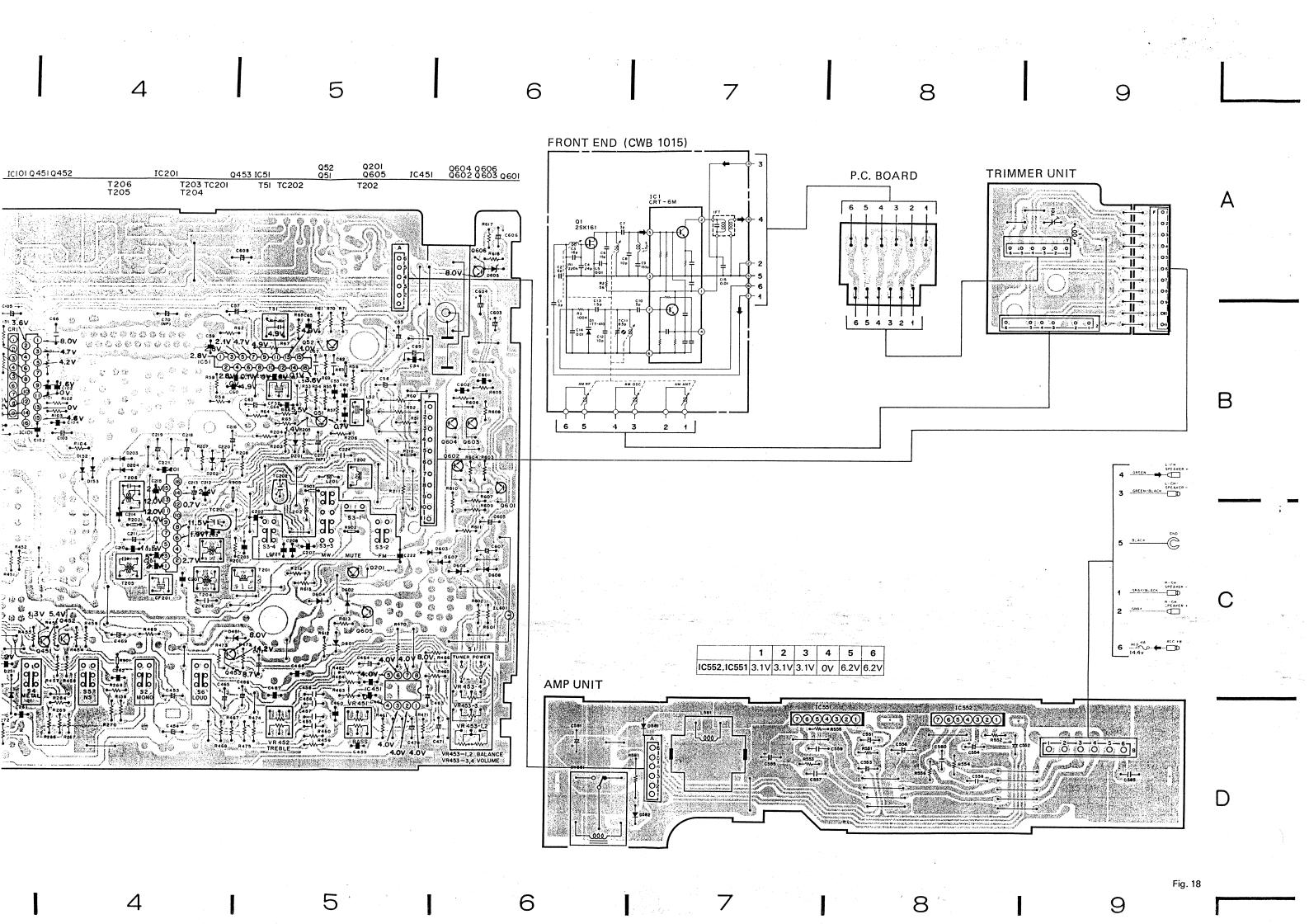


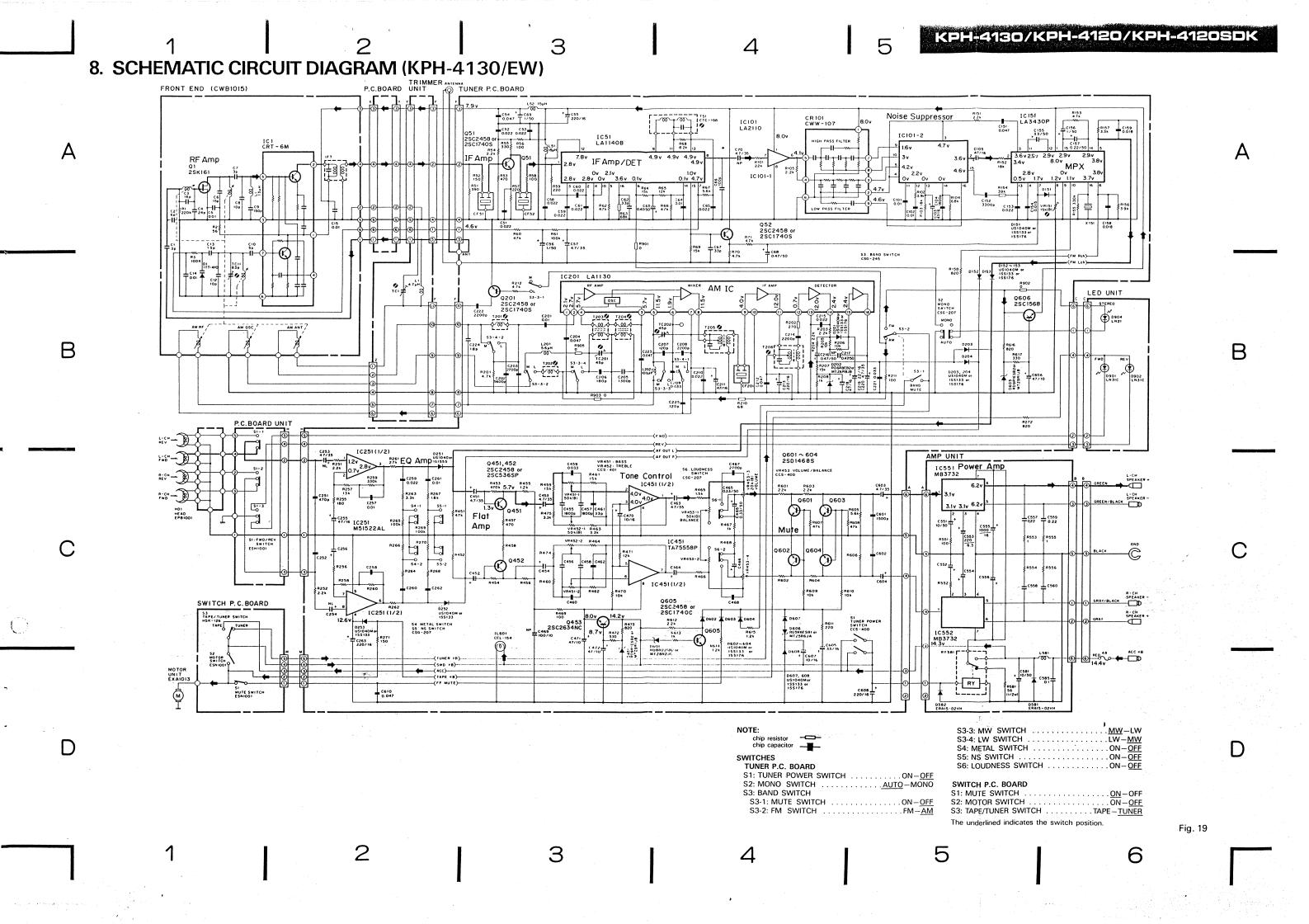


KPH-4130/KPH-4120/KPH-4120SDK



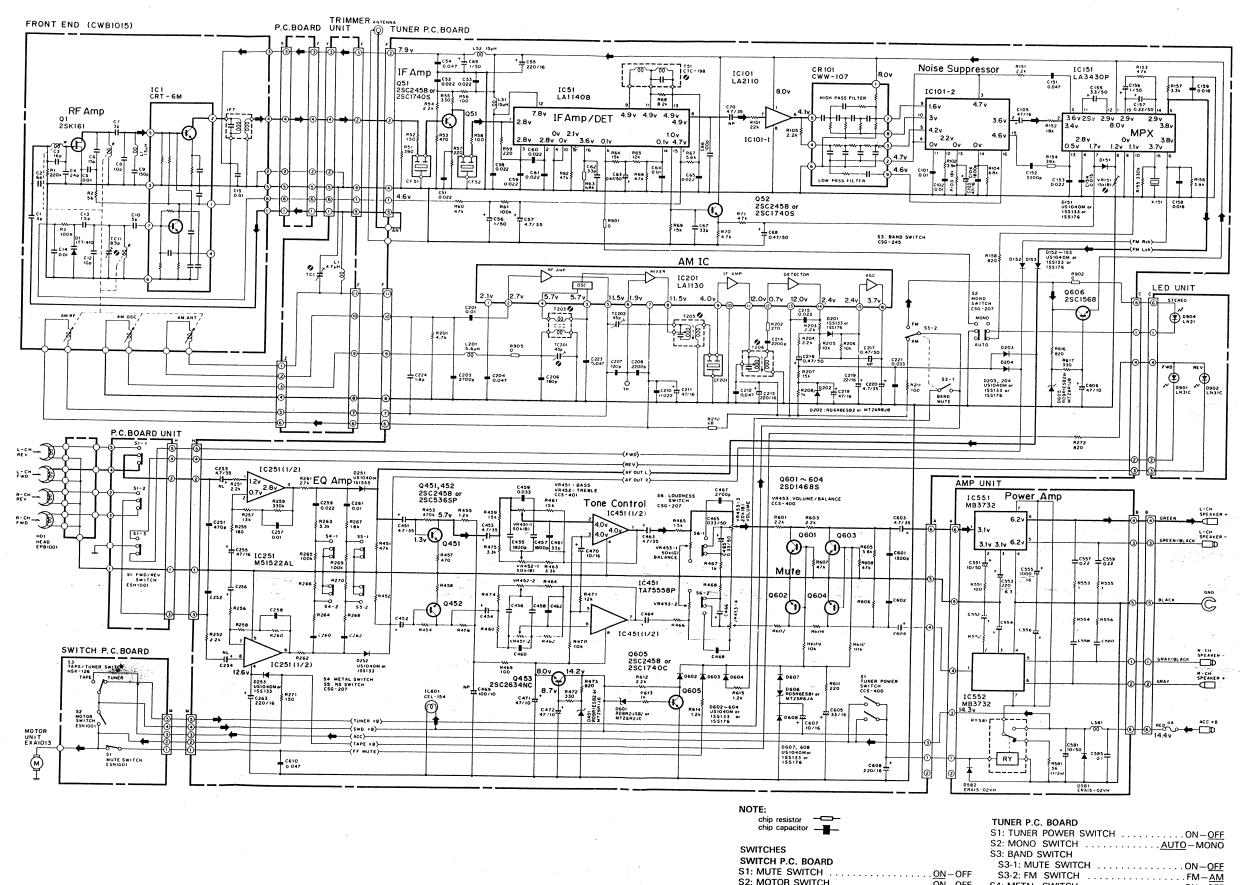






B

9. SCHEMATIC CIRCUIT DIAGRAM (KPH-4120/EW,ES)

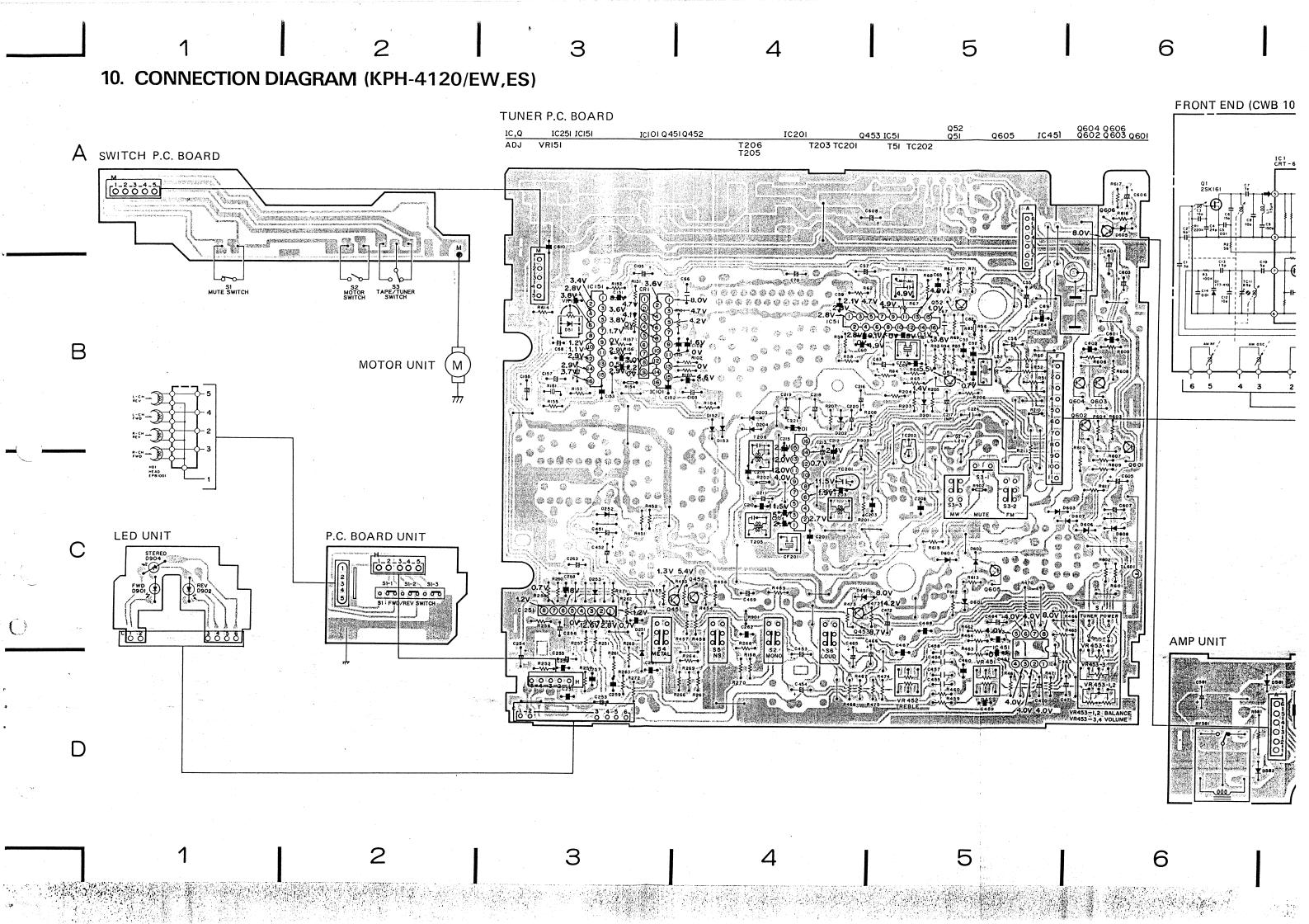


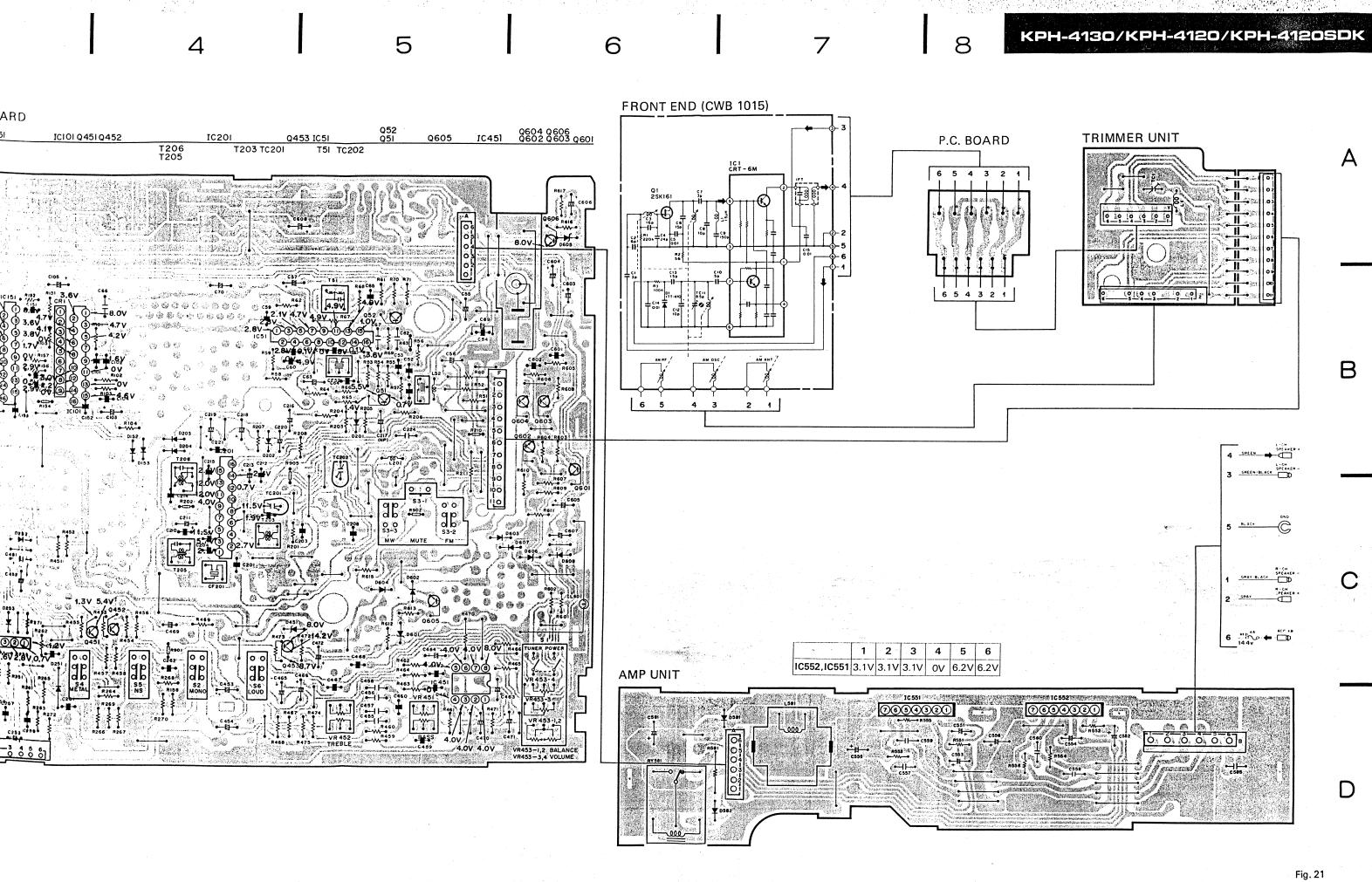
1

S4: METAL SWITCH ON - OFF S5: NS SWITCHON-OFF S6: LOUDNESS SWITCHON-OFF The underlined indicates the switch position.

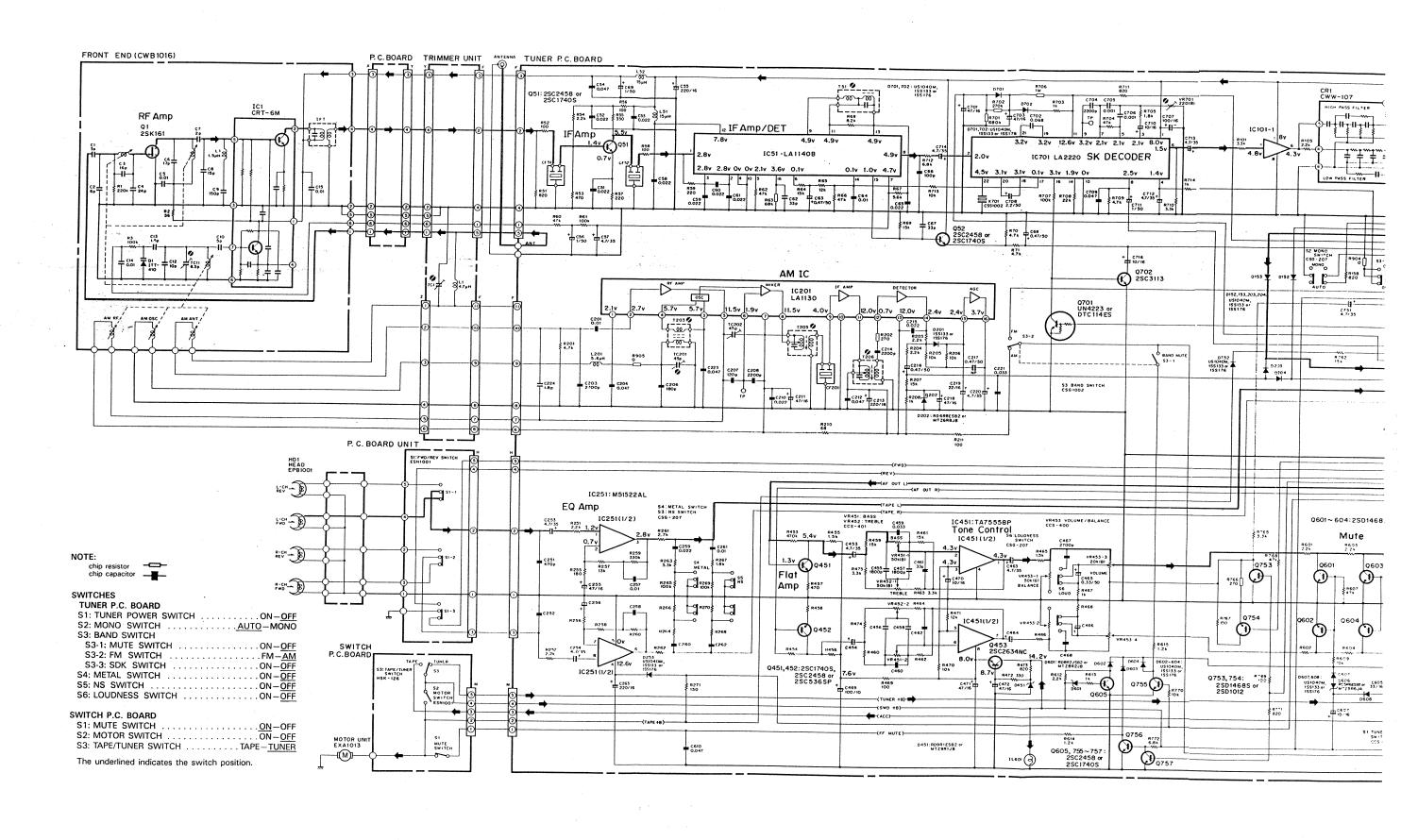
B

Fig. 20





2



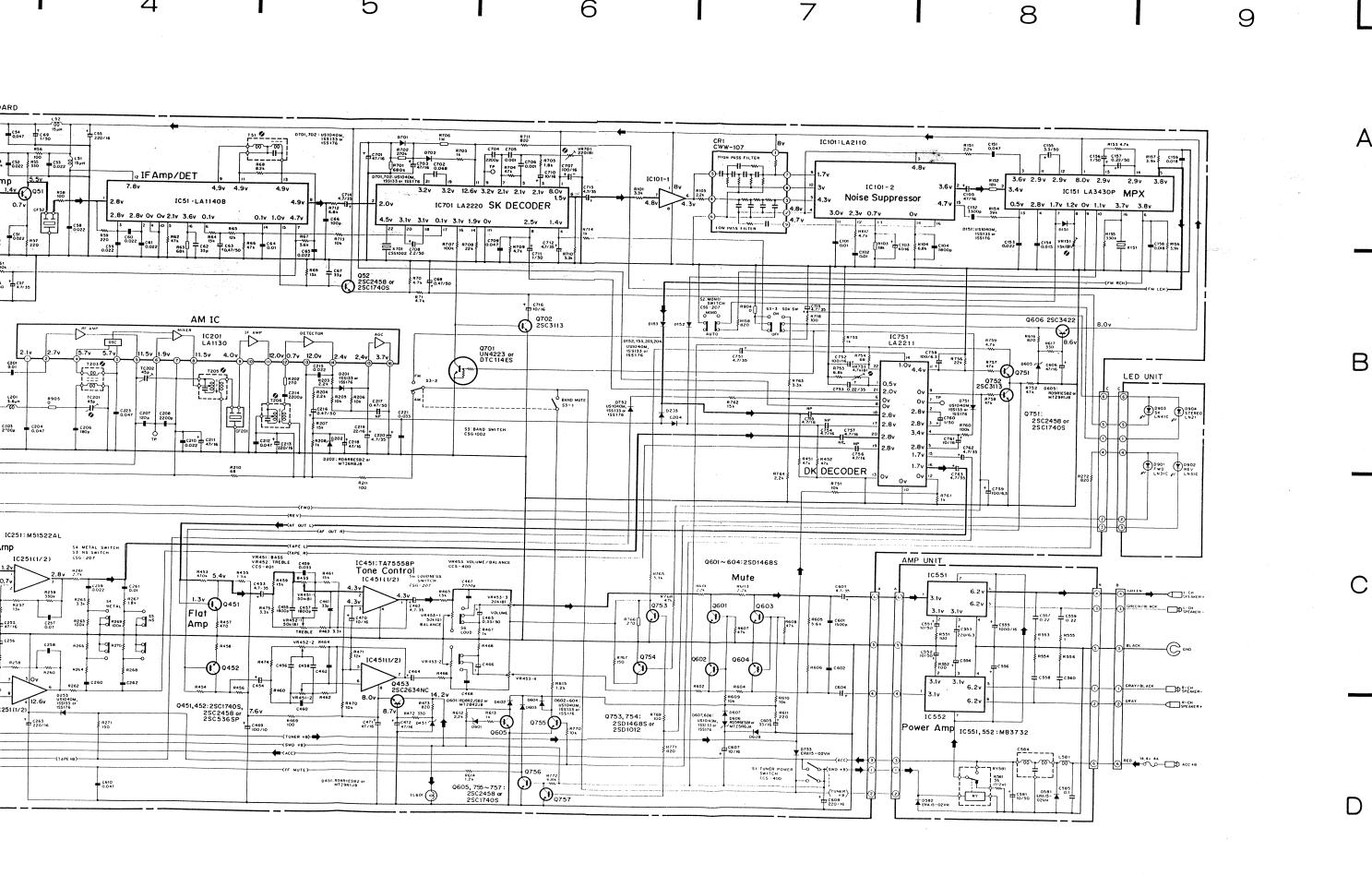
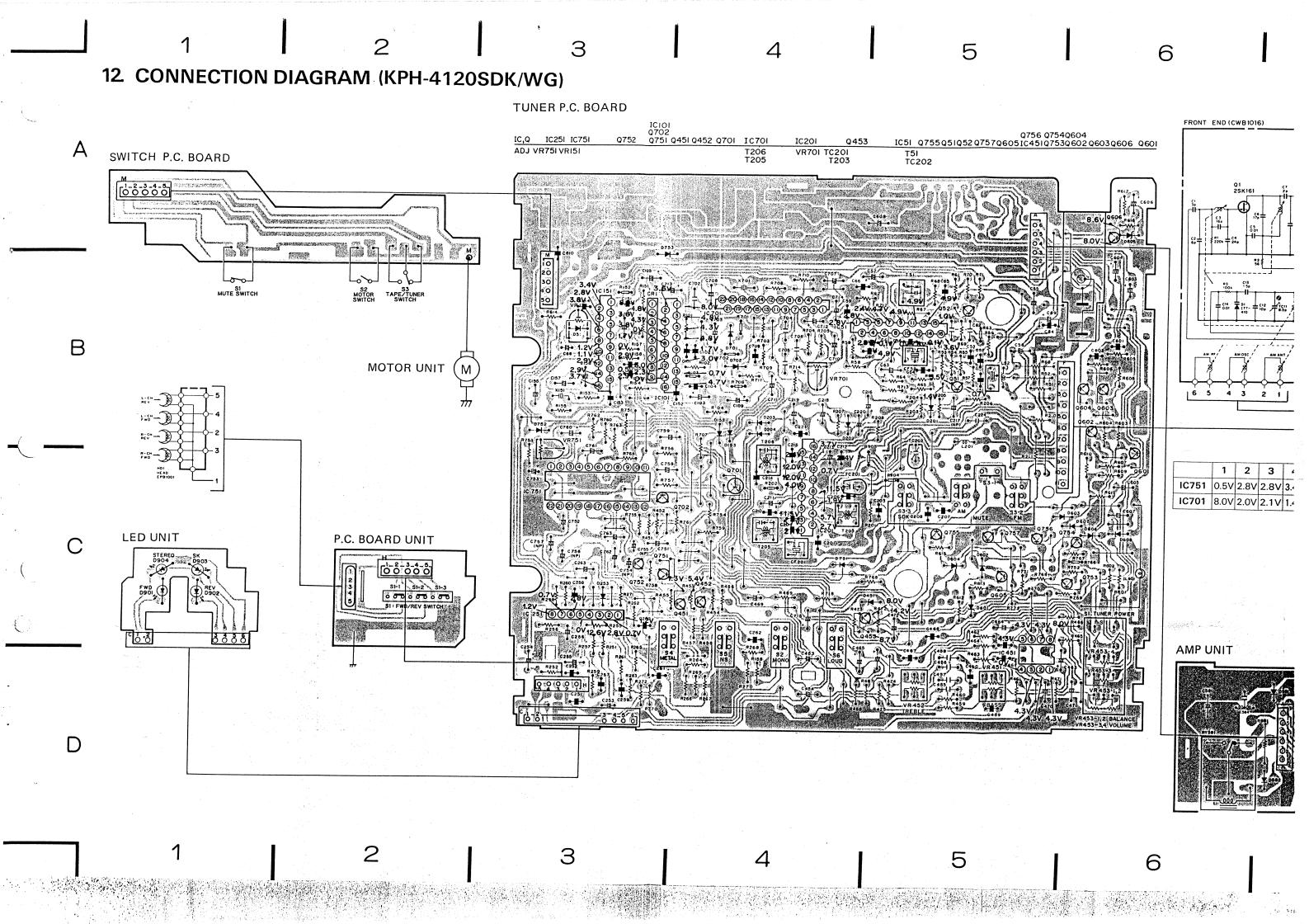
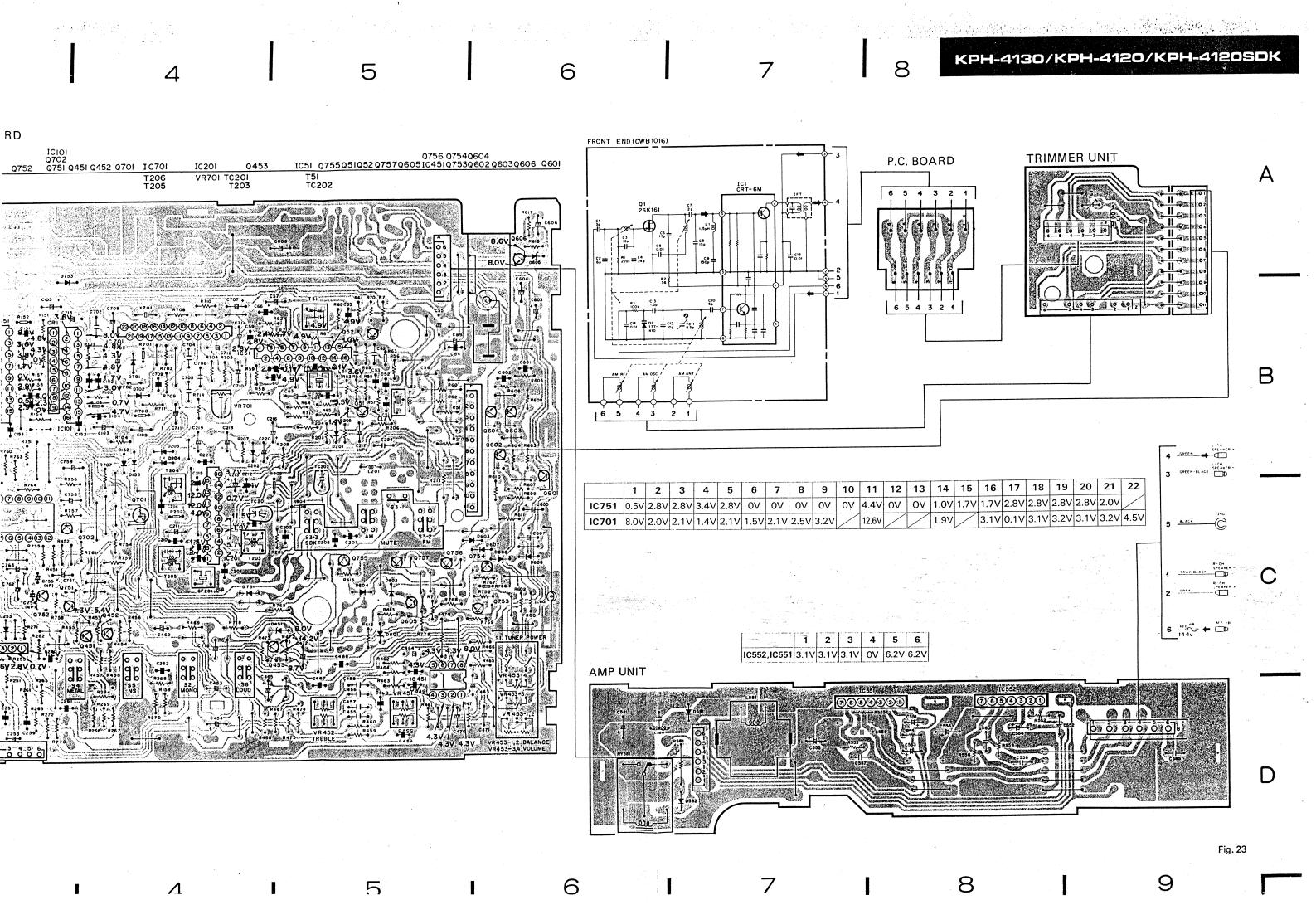


Fig. 22





• Parts List

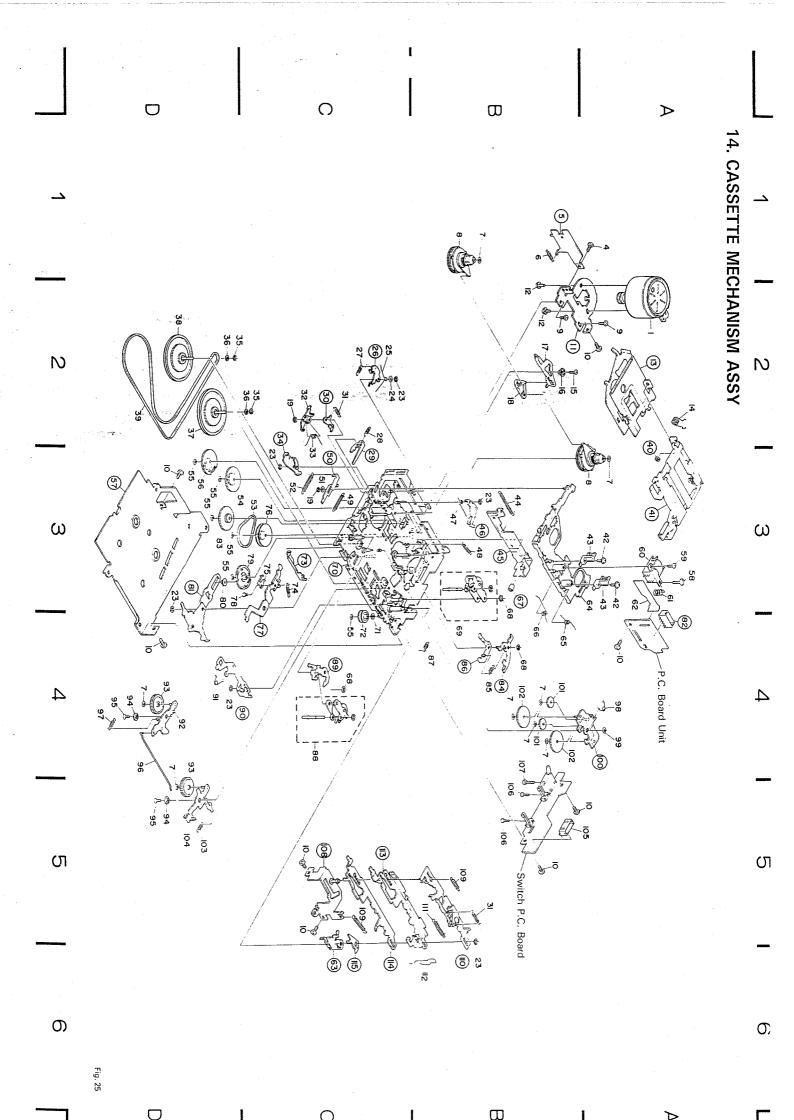
NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks
 - $\star \star$ and \star .
 - \star \star : GENERALLY MOVES FASTER THAN \star .

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Part No.	Description	Mark		No.	Part No.	Description
	. ——		Screw		*	29.	CAA1070	Knob (BASS, TREBLE)
		BMZ30P050FMC				30.		Scale (KPH-4130/EW)
		CNB1127	Case					Scale (KPH-4120/EW,ES)
		CNW-101	Coupler B					Scale (KPH-4120SDK/WG)
	4.	CNW-100	in the second of	e see		31.	*	Cap (KPH-4120/EW,ES)
	5.	and the state of	Holder Unit		, e-	0		
						32	CXA1514	Grille Assy (KPH-4130/EW)
		CNV1320	Guide			· ·	CXA1512	Grille Assy (KPH-4120/EW,ES)
**	7.	CEL-154	Lamp				CXA1516	Grille Assy (KPH-4120SDK/WG
	8.	CBA-067	Nut			22	BMZ26P050FMC	Screw
	9.	CBA-066	Nut				EXK1140	Cassette Mechanism Assy
*	10.	CAC-908	Button (BAND)		•	34.	EXX I 140	Cassette Modrianism / 1927
	11	CAC-908	Button (BAND) (KPH-4130/EW)			35.	CWB1015	Front End (KPH-4130/EW,
*		CAC-909	Button (BAND) (KPH-4120SDK/WG)					KEH-4120/EW,ES)
*	10	CAC-000	Pointer				CWB1016	Front End (KPH-4120SDK/WG)
		CAC-913	Button (NS, METAL, MONO,			36.		Lever
*	13.	CAC-913	LOUD)			37.		Lever (KPH-4130/EW,
								KPH-4120SDK/WG)
	14		Lever			38	CKX1002	Antenna Jack
		. CBH1085	Spring				HKS-176	Connector
*	16	. CAC1293	Button				CDE1417	Cord Assy
	17	•	Holder			41		Plug
	18	. BMZ26P030FMC	Screw			41		·
	19		Lens			42	. CKS-463	Plug
		. CBH-875	Spring			43	•	Heat Sink
		. CAT1048	Door			44	. BMZ26P100FMC	Screw
			Sheet (KPH-4130/EW,			45		Holder
	22		KPH-4120/EW,ES)			46		Insulator
			Chara WPH 4120SDK (WG)			47		Connector
			Sheet (KPH-4120SDK/WG)			48		Connector
	23		Cushion			49		Chassis Unit
	24	1.	Grille (KPH-4130/EW)		(. CWM1225	Tuner Amp Assy
			Grille (KPH-4120/EW,ES) Grille (KPH-4120SDK/WG)		,	9 50	. (11)111220	(KPH-4130/EW)
		5. PMZ30P050FMC	Screw		(CWM1224	Tuner Amp Assy
	_		Knob (TUNING)					(KPH-4120/EW,ES)
	· ·	6. CAA1061	Knob (BALANCE)		()	CWM1226	Tuner Amp Assy
	_	7. CAA1062	Knob (VOLUME)		•	-		(KPH-4120SDK/WG)
•	★ 2	8. CAA1063	KIIOD (VOLOIVIL)			5	1.	Insulator
						⋆ 5	2. CAC1353	Button (⊲⊲)
							3. CAC1352	Button (▷▷)
						× 0	J. UMU 1002	



• Parts List

	Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	**		EXA1013 VACANT	Motor Assy			BMZ20P040FMC	Screw
Δ		4.		Screw	**		EPB1001	Head
		5.	DIVIZZOI OZOI WIC	Holder			CBH-198	Spring
		6.	EBH1011	Spring			ENP1003	P.C. Board
				-		63.		Arm
			CBF-166	Washer		64.	EXA1004	Head Base Unit
	**	8.		Reel Unit		65.	EBH1004	Spring
		9.		Screw		66.	EBH1003	Spring
		10.	BSZ23P040FMC	Screw		67.		Cushion
	ıı '~	11.		Bracket		68.	YE20FUC	Washer
		12.	PMS26P025FUC	Screw		69.	EXA1002	Roller Unit
		13.		Cassette Holder		70.		Chassis Unit
			EBH1019	Spring		71.	EBF1004	Washer
	·		EBA1002	Screw .		72.	ENV1009	Pulley
		16.	ELA1019	Collar	l'ac	73.		Lever
		17.	ENV1022	Arm	. 61	74	EBH1025	Spring
		18.		Arm			EBL1001	
В			YE12FUC	Washer			ENV1010	Spring
ال	l		VACANT	***************************************			ENVIOLO	Pulley
			YE15FUC	Washer		77.	LIDA 147	Arm
		2	1210.00	·		78.	HBA-147	Screw
		24.	CBF-165	Washer		79.	ENV1015	Gear
		25.	EBH1035	Spring			ELA1018	Collar
		26.		Arm		81.		Arm
		27.	EBH1037	Spring		82.		Plug
		28.	EBH1039	Spring			ENV1011	Gear
	11	00						Gour
		29.		Arm		84.		Arm
		30.		Arm		85.	EBH1024	Spring
		31.	EBH1010	Spring		86.		Ratchet
		32.	ED114000	Arm		87.	EBH1018	Spring
		33.	EBH1008	Spring	,**	88.	EXA1003	Roller Unit
		34.		Arm Unit		89.		Arm
_		35.	CBG1001	Washer		90.		Lever
		36.	HBF-179	Washer			EBH1013	Spring
_		37.	ENV1019	Flywheel(N)			EXA1006	Arm Unit
		38.	ENV1020	Flywheel(R)			EXA1020	Gear Unit
	**	39.	CNT-091	Belt		94	ELA1032	Coller
		40.		Roller			HBA-212	Collar
		41.		Cassette Frame Unit			EBH1007	Screw Spring
		42.	PMS20P040FMC	Screw			EBH1006	· •
			ENV1016	Tape Guide			EBH1014	Spring Spring
	ıf					50.	CBITIO14	Spirity
			EBH1020	Spring		99.	CBF1001	Washer
		45.		Lever		100.		Arm Unit
		46.		Arm		101.	ENV1018	Gear
			EBH1040	Spring		102.	ENV1017	Gear
		48.	EBH1041	Spring		103.	EBH1022	Spring
		49.	EBH1021	Spring		104	EXA1005	Arm Unit
_		50.		Lever		105.		Plug
)	51.	EBE1001	Washer			EBA 1006	Screw
		52.	EBH1009	Spring			BMZ20P070FUC	Screw
	* *	53.	ENT1002	Belt		108.	5.412201 0701 00	Bracket Unit
		- 1	END/1010			••		= some office
			ENV1012	Gear			EBH1016	Spring
			CBF-135	Washer		110.		Lever Unit
			ENV1014	Gear		111.	EBH1017	Spring
		57.	ED 4 1007	Cover			EBH1005	Spring
		58.	EBA1007	Screw		113.		Lever
						114.		Lever
-						115.		Arm
1								* *****

KPH-4130/KPH-4120/KPH-4120SDK

15. ELECTRICAL PARTS LIST

NOTE:

When ordering resistors, first convert resistance values into code form as shown in the following examples.

- When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%). *560*Ω 56×101 561 RD1/4PS 5 6 1 J 47kΩ 47×103 473RD1/4PS41733 J 0.5Ω OR5.....RN2H OR5K
- When there are 3 effective digits (such as in high precision metal film resistors). 562×101......RN1/4SR56211F

010 RS1P 010K

- For your Parts Stock Control, the fast moving items are indicated with the marks \star \star and \star .
 - * *: GENERALLY MOVES FASTER THAN *.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

1Ω

 $RS1/8S \square \square \square J$, $RS1/10S \square \square \square J$

Chip Capacitor (except for COS....)

CKS....., CCS....., CSZS.....

	er P.C. Board (KPH-4130	/EW)		Mark	Description	No.
Mark	ELLANEOUS Symbol & Description	Part No.	*	D606		MTZ9R1JB RD5R6ESB1 o
**	IC51	LA1140B		L51, 52	Inductor	MTZ5R6JA
**		LA2110		L201	Ferri-Inductor	LAU150K
**		LA3430P		-201	i eni-inductor	LAU5R6K
**	IC201	LA1130		L202	Ferri-Inductor	Charleson.
**	IC251	M51522AL		T51		LAU101K
				T201	Coil Coil	CTC1008
**	IC451	TA75558P		T202		CTB-147
**	Q51, 52, 201, 605	2SC2458 or 2SC1740S		T203	Coil Coil	CTB-148 CTB-146
* *	Q451, 452	2SC2458 or		T204	Coil	0=0
		2SC536SP		T205	Coil	CTB-145
				T206	IFT	CTE-150
**	Q453	2SC2634NC		CF51, 52		CTE-149
**	Q601 — 604	2SD1468S		01 31, 32	Ceramic Filter	CTF-152
**	Q606	2SC1568				CTF-217
*	D151 — 153, 201, 203, 204, 252,	US1040M or		CF201	File	
	253, 602 – 604, 607, 608	1SS133 or		C1 20 1	Filter	CTF-100
	• • • • • • • • • • • • • • • • • • • •	100 100 01		CR101		CTF-240
		1SS176			0:	CWW-107
*	D202	RD6R8ESB2 or		TC201, 20	2 Trimmer	CCG-087
_	D251	MTZ6R8JB			-mi-fixed, 15 kΩ(B)	CCP-246
*	0251	US1040 or 1S1555	**	VR451, 45	Volume, 50 kΩ(B), (BASS, TREBLE)	CCS-401
	D4F4		**	VR453/S1		CCS-400
*	D451	RD9R1ESB2 or			20 kΩ(B), 50 kΩ(G),	999 400
	500.	MTZ9R1JB			(VOLUME, BALANCE/	
*	D601	RD8R2JSB2 or				
	000-	MTZ8R2JC			TUNER POWER)	
*	D605	RDOD1ECD2				

RD9R1ESB2 or

-		<u>.</u>		. -	
	•		,		
Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
**	S2, 4-6 Switch (MONO,	CSG-207		C225	CCSSL12
	METAL, NS, LOUD)	CSC 245		C251, 252	CKSYB4
	S3 Switch (BAND) IL601 Lamp, 14 V 40 mA	CSG-245 CEL-154		C253, 254 C255, 256	CEANL4F CEA470F
**	X151 Ceramic, Resonator	CSS1019		C257, 258	CKSYB1
		· · · · · · · · · · · · · · · · · · ·	-	C259, 260	CKSÝB2:
RESIST	ORS	And the second second		C261, 262	CKSYB1
	Symbol & Description	Part No.		C263	CEA2211
Mark	The state of the s	· · · · · · · · · · · · · · · · · · ·		C451 — 454, 463, 464 C455 — 458	CEA4R7
	R52, 60, 67, 211, 470 R63, 154, 202, 210, 901 — 903,	RD1/4PM□□□J RS1/8S□□□J		C455 — 456	CKLIXI
	905			C459, 460	CKSYB3
<u></u>	Other Resistors	RD174PS□□□JL		C461, 462	CCSSL3:
	and the second s	*		C465, 466 C467, 468	CEAR33I CKSYB2
CAPAC	CITORS	* * .		C469	CEA 101
	Prinate Committee Committe	5 . 1			
Mark	Symbol & Description	Part No.		C470	CEA 100
	C51 — 53, 58 — 61, 65	CKSYB223K50		C471, 472 C601, 602	CEA470I CKSYB1
	C54	CKSYF473Z50		C603, 604	CEA4R7
	C55 C56, 69	CEA221M16L2 CEA010M50LS2		C605	CEA330
	C57	CEA4R7M35L2			051470
				C606 C607	CEA470 CEA100
	C62, 67	CCPSL330J50L		C608	CEA221
	C63, 68	CEAR47M50LS2 CKSYB103K50		C610	CKSYF4
	C64 C66	CKPYB101K50L			
	C70	CEA4R7M35NPLL	Tune	er P.C. Board (KPH-4120/EW	V,ES)
	C101, 102	CKSYB103K50		ELLANEOUS	
	C103	CEA470M16LS		Symbol & Description	Part No.
	C104	CKSYB182K50	Mark	Symbol & Description	<u> </u>
	C105 C151	CEA470M16L2 CKSYF473Z50		IC51	LA1140
	C131	0.011 170200		IC101 IC151	LA2110 LA3430
	C152	CKSYB332K50		IC201	LA1130
	C153	CKSYB223K50		IC251	M51522
	C154	CKSYB153K CEA3R3M50LS			
	C155 C156	CEA010M50LS2		IC451	TA7555
			**	Q51, 52, 605	2SC245 2SC174
	C157	CSZAR22M50	**	Q451, 452	2SC245
	C158, 159	CKSYB183K50 CKSYB103K50			2SC536
	C201 C202	CKSYB562K50		0.453	00000
	C203	CKSYB272K50		· Q453 · Q601 – 604	2SC263 2SD146
			**		2SC156
	C204, 212, 223	CKSYF473Z50		D151 — 153, 201, 203, 204, 252,	US1040
	C205 C206	CQPA132J100 CCSSH181J50		253, 602 — 604, 607, 608	188133
	C206	CCSPH121J50			100170
	C208, 214	CKSYB222J50		D202	1SS176 RD6R88
		01/01/0201105	^		MTZ6R
	C209, 221	CKSYB333K25	*	r D251	US1040
	C210, 215 C211, 218	CKSYB223K50 CEA470M16LS			1S1555
	C211, 218	CEA221M16L2		D451	RD9R18
		CEAR47M50LS2	*	r D451	MTZ9R
	C216				
	C216		*	▶ D601	RD8R2
	C216	CCH-108			MTZ8R
	C216			D601	RD8R2. MTZ8R RD9R1E MTZ9R

Mark	Symbol & De	escription	Part No.	Mark	Symbol & Description	Part No.
*	D606		RD5R6ESB1 or		C151	CKSYF473Z50
			MTZ5R6JA		C152	CKSYB332K50
	L51, 52	Inductor	LAU150K		C153	CKSYB223K50
	L201	Ferri-Inductor	LAU5R6K		C154	CKSYB153K50
	T51	Coil	CTC1008		C155	CEA3R3M50LS
					0100	CEASINISUES
	T203	Coil	CTB-146		C156	CEA010M50LS2
	T205	Coil	CTE-150		C157	CSZAR22M50
	T206	IFT	CTE-149		C158, 159	CKSYB183K50
	CF51, 52	Ceramic Filter	CTF-217 or		C201	CKSYB103K50
			CTF-152 <		C203	CKSYB272K50
	CF201	Filter	OTE 100			
	CF201	ritter	CTF-100 or		C204, 212, 223	CKSYF473Z50
**	CR101	*	CTF-240		C206	CCSSH181J
			CWW-107		C207	CCSPH121J
	TC201, 202	Trimmer	CCG-087		C208, 214	CKSYB222K50
* * * * * * * * * * * * * * * * * * * *	VR151	Semi-fixed, 15 k Ω (B)	CCP-246		C210, 215, 259, 260	CKSYB223K50
**	VR451, 452	Volume, 50 kΩ(B)	CCS-401		C213	CEA 221M1CLC
	- 10	(BASS, TREBLE)			C216	CEA221M16LS
**	VR453/S1	Volume/Switch,	CCS-400			CEAR47M50LS2
		20 kΩ(B), 50 kΩ(G),	333 103		C217 0.47 μF/50 V (NP)	CCH-108
	1 · · · · · · · · · · · · · · · · · · ·	(VOLUME, BALANCE/			C219	CEA220M16LS
		(VOLONIE, BALANCE)			C220	CEA4R7M35LS
		TUNER POWER)			C221	CKSYB333K25
**	S2, 4-6	Switch (MONO,	CSG-207		C224	CCPCH1R8M50
		METAL, NS, LOUD)			C251, 252	CKSYB471K50
**	S3	Switch (BAND)	CSG-246		C253, 254	CEANL4R7M35LL
	X151	Ceramic Resonator	CSS1019		C255, 256	CEA470M16LS
					·	Ja. 117 J. 117 J
**	IL601	Lamp, 14 V 40 mA	CEL-154		C263	CEA221M16L2
					C451 — 454, 463, 464	CEA4R7M35LS
DEOLO	- 000				C455 — 458	CKPYX182M16
RESIST	IORS				C459, 460	CKSYB333K25
Mark	Symbol & De:	scription	Part No.		C461, 462	CCSSL330J50
	DE2 60 67	011 470			0405 400	
	R52, 60, 67,		RD1/4PM□□□J		C465, 466	CEAR33M50LS2
		2, 210, 901, 905	RS1/8S□□□J		C467, 468	CKSYB272K50
	Other Resistor	'S	RD1/4PS⊡⊡□JL		C469	CEA101M10L2
					C470	CEA100M16LS2
САРАС	CITORS				C601, 602	CKSYB152K50
					C603, 604	CEA4R7M35LS
Mark	Symbol & Des	scription	Part No.		C605	CEA470M16L2
	C51 – 53, 58	_ 61 65	CKCABAAAKEA		C607	
	C54 - 53, 58	-01, 00	CKSYB223K50		C608	CEA100M16LS2
	C55		CKSYF473Z50		C610	CEA221M16L2
			CEA221M16L2		6010	CKSYF473Z50
	C56, 69		CEA010M50LS2			
	C57		CEA4R7M35L2	Tuner	P.C. Board (KPH-4120SDI	(MG)
	C62, 67		CCPSL330J50L			(14 C)
	C63, 68		CEAR47M50LS2	IVIIOUE	LLANEOUS	
	C64		CKSYB103K50	Mark	Symbol & Description	Part No.
	C66		CKPYB101K50L			
	C70		CEA4R7M35NPLL	**	IC51	LA1140B
	- =		OL/STIT/ MISSINFEL	**	IC101	LA2110
	C101 102 2	57, 258, 261, 262	CKSYB103K50	**	IC151	LA3430P
		18, 255, 256, 471,		**	IC201	LA1130
	472	10, 200, 200, 4/1,	CEA470M16LS		IC251	M51522AL
	C104		CVCVD100VC0		•	
	C104		CKSYB182K50	**	IC451	TA75558P
	0.100		CEA470M16L2		IC701	LA2220
					IC751	LA2220

★ ★ IC751

★★ Q51, 52, 605, 751, 755 — 757

LA2211

2SC2458 or 2SC1740S

KPH-4130/KPH-4120/KPH-4120SDK

Mark	k Symbol & Description		Part No.	CAPA	CITORS	
**	Q451		2SC2458 or 2SC536SP	Mark	Symbol & Description	Part No.
**	Q453		2SC2634NC		C51 - 53, 58 - 61, 65, 210, 215	CKSYB223K50
	Q601 - 604		2SD1468S		C54	CKSYF473Z50
	Q606		2SC3422		C55, 213	CEA221M16L2
					C56, 69	CEA010M50LS2
**	Q701		UN4223 or		C57	CEA4R7M35L2
	0700 750	* 1	DTC114ES		C62, 67	CCPSL330J50L
	Q702, 752 Q753, 754		2SC3113 2SD1468S or		C63, 68, 216	CEAR47M50LS2
' * *	U/55, /54		2SD14063 07		C64, 257, 258, 261, 262	CKSYB103K50
			2301012		C66	CCSSL101J50
	D151 153	201, 203, 204, 253,	US1040M or		C101, 102	CKSYB103K50
		607, 608, 701, 702,	1SS133 or			
	751, 752	337, 333, 731, 732,	1SS176		C103, 211, 218, 255, 256	CEA470M16LS
* *	D202		RD6R8ESB2 or		C104	CKSYB182K50
		The second of th	MTZ6R8JB		C105	CEA470M16L2
	J. (1) (4)				C151, 204, 212, 223	CKSYF473Z50
*	D451, 605		RD9R1ESB2 or		C152	CKSYB332K50
			MTZ9R1JB			
*	D601		RD8R2JSB2 or		C153, 259, 260	CKSYB223K50
	ν.		MTZ8R2JC		C154	CKSYB153K50
*	D606		RD5R6ESB1 or		C155	CEA3R3M50LS
					C156	CEA010M50LS2
			MTZ5R6JA		C157	CSZAR22M50
*	D753		ERA15-02VH		0450 450	
	L51, 52	Inductor	LAU150K		C158, 159	CKSYB183K50
	L201	Ferri-Inductor	LAU5R6K		C201	CKSYB103K50
	T51	Coil	CTC1008		C203	CKSYB272K50
					C206 C207	CCSSH181J50
	T203	Coil	CTB-146		C207	CCSPH121J50
	T205	Coil	CTE-150		C208, 214	CKSYB222K50
	T206	IFT	CTE-149		C217 0.47 µF/50 V (NP)	CCH-108
	CF51	Ceramic Filter	CTF-217 or		C219	CEA220M16LS
			CTF-152		C220, 453, 454, 463, 464	CEA4R7M35LS
	CF201	Filter	CTF-100 or		C221	CKSYB333K25
	CFZU1	riitei	CTF-100 or CTF-240			
	CR101		CWW-107		C224	CCPCH1R8M50L
	TC201, 202	Trimmer	CCG-087		C251, 252	CKSYB471K50
**	VR151	Semi-fixed, 15 kΩ	CCP-246		C253, 254	CEANL4R7M35LL
	-				C263	CEA221M16L2
**	VR451, 452	Volume, 50 kΩ(B), (BASS, TREBLE)	CCS-401		C455 — 458	CKPYX182M16L
**	VR453/S1	Volume/Switch,	CCS-400		C459, 460	CKSYB333K25
^ ^	*********	20 kΩ(B), 50 kΩ(G),	365,400		C461, 462	CCSSL330J50
		(VOLUME, BALANCE/			C465, 466	CEAR33M50LS2
		(1020.112, 5, 12, 11102,			C467, 468	CKSYB272K50
		TUNER POWER)			C469	CEA101M10L2
**	VR701 Semi	-fixed, 220 Ω(B)	CCP-235			
**	VR751 Semi	-fixed, 4.7 kΩ(B)	CCP-243		C470, 710, 716	CEA100M16LS2
**	S2, 4-6 SV	witch (MONO,	CSG-207		C471, 472	CEA470M16LS
	N	IETAL, NS, LOUD)			C601, 602	CKSYB152K50
					C603, 604, 712 – 715, 751, 762,	CEA4R7M35LS
**	S3	Switch (BAND)	CSG1002		763	
	X151	Ceramic Resonator	CSS1019		CCOF	054000144010
	X701	Ceramic Resonator	CSS1002		C605	CEA330M16LS
**	IL601	Lamp, 14 V 40 mA	CEL-154		C607	CEA100M16LS2
					C608	CEA221M16L2
RESIS					C610 C701, 703	CKSYF473Z50 CEA470M16LS
Mark	Symbol & Des	scription	Part No.			
	R52, 60, 67,	211, 470	RD1/4PM□□□J		C702	CQMA683J50LL
		2, 202, 701, 702,	RS1/8S□□□J		C704	CQMA222J50LL
	706, 766, 9				C705, 706	CQMA102J50LL
	Other Resistor		RD1/4PS□□□JL		C707, 752	CEA 101M16L2
					C708	CEA2R2M50LS2

9H-4130/KPH-4120/KPH-41205DK

Mark	Symbol &	Description	Part No.		
	C709		CKSYF473Z50		
	C711		CEA010M50LS2		
	C753		CSZAR22K35		
	C754 7		CEA4R7M16NPLL		
	C758, 75	9	CEA101M6R3LS		
	C760		CEA010M50LS2		
	C761		CEA010M16LS2		
Λ	a Huis				
_	o Unit	_	997 P		
IVIISC	ELLANEOU		ton.		
Mark	Symbol &	Description	Part No.		
	C551, 55		MB3732		
*	D581, 582		ERA15-02VH		
	L581	Choke Coil	CTH-083		
	RY581	Relay	CSR-052		
RESIS	STORS				
Mark		.			
IVIOIR	Symbol & I	Description	Part No.		
	R581 Other Resis	tors	RD1/2PS560JL RD1/4PS□□□JL		
CAPA	CITORS				
Mark	Symbol & E	Description	Part No.		
	C551, 552,	581	CEA 100M50L2		
	C553, 554		CEA221M6R3L2		
	C555, 556		CEA102M16L2		
	C557 — 560), 585	CQMA224J50L		
		4120SDK/WG)	CCG-081		
	C585		CQMA104K50L		
Trimr	ner Unit				
MISCE	LLANEOUS				
Mark	Symbol & D	escription	Part No.		
	L1	Ferri-Inductor	LAU4R7K		
	TC1	Trimmer	CCG-090		
LED (lnit				
Mark	Symbol & Do	ecription	D		
			Part No.		
* *	D901, 902 D903	LED (DIRECTION) LED (SK)	LN31C		
		(KP-4120SDK/WG)	LN41C		
*	D904	LED (STEREO)	LN21C		
P.C. E	Board Unit				
	Symbol & De		Poet No.		
			Part No.		

Switch (FWD/REV)

ESH1001

Switch P.C. Board

Mark	Symbol & Description		Part No.
**		Switch (MUTE, MOTOR) Switch (TAPE/TUNER)	ESN1001 HSK-126

Miscellaneous Parts List

Mark	Symbol & Description	Part No.
**	HD1 Head M Motor Unit Front End (KP-4130/EW, KP-4120/EW,ES)	EPB1001 EXA1013 CWB1015
	Front End (KP-4120SDK/WG)	CWB1016